

800121-2 ON 9MG

NOTES:

1. DCS ANALOG INPUTS 4-20mA.
2. MCC CONNECTED MOTORS WITH DCS CURRENT MONITORING USE RILEY CORPORATION AC CURRENT SENSOR MODEL #401 BELOW 50HP AND MODEL #420L FOR 60 HP AND ABOVE.
3. ALL 480V MCC MOTOR STARTER ARE CONTROLLED FROM DCS ONLY.
4. TAG NUMBERS AND BUS NUMBERS ON HOLD
5. THIS BREAKER IS ELECTRICALLY INTERLOCK WITH THE ALTERNATE FEEDER BREAKER IN BUS 42B.

LEGEND:

ADCR	AMP TRANSDUCER
AM	AMMETER
64	BASLER BEI-59N
VDCR	VOLTAGE TRANSDUCER

REFERENCES:

- 2-121000 ELEC FGD PROJECT ONLINE DIAGRAM LEGEND
2-121009 ELECTRICAL UNIT 2 FGD SWGR 42B 480V AUX ONLINE DIAGRAM
2-121013 ELECTRICAL UNIT 2 FGD/SCR SWGR 2F 13.8KV AUX ONLINE DIAGRAM

REISSUE - INCORPORATE LATEST DIRECTION FROM AEP

REISSUE-INCORPORATE CLIENT'S COMMENT, REVISED LOADS, MADE BUS 43A SINGLE ENDED SWGR.

PRELIMINARY- FOR COMMENTS

REV	DATE	DRAWN	CHECKED	DESIGNED	ENGINEER/TECH SPEC	LEAD DISE	PROJECT MANAGER	PROJECT MANAGER
A	12/09/05	BMT	KRB	DAM	YRT	SJP	FON	

REVISIONS

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KENTUCKY POWER COMPANY
BIG SANDY PLANT
BIG SANDY KENTUCKY

ELECTRICAL
UNIT 2 FGD SWGR 42A
480V AUX ONE LINE DIAGRAM

DWG. NO. 2-121008-C

ELECTRICAL & CONTROLS ENGINEERING DIV.

DOCUMENT PREPARED BY PARSONS ESC

AEP SERVICE CORP
1 RIVERSIDE PLAZA
COLUMBUS, OH 43215

WorleyParsons
resources & energy

PRELIMINARY STATUS	DATE	REPRESENTS GENERAL DESIGN CONCEPTS BASED ON ASSUMPTIONS. REVIEWED NOT CHECKED.
APPROVED STATUS	DATE	REPRESENTS REVIEWED AND APPROVED DESIGN. ANY PORTION MARKED "HOLD" RETAINS PRELIMINARY STATUS.
ORIGINATING PERSONNEL	PROFESSIONAL ENGINEER'S SEAL	
DRAWN BY BM TATE		
CHECKED BY		
LEAD DESIGNER KR BIEBER		
ENGINEER/TECH SPECIALIST DA MILLER		
PROJECT ENGINEERING MANAGER SF CASTLE		
PROJECT MANAGER SL PIEKOS		

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PE: _____ STATE: _____
LIC. NO.: _____ DATE: _____